

GAS TURBINE COMBUSTOR

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ABSTRACT OF THE DISCLOSURE

10 A combustor structure of a gas turbine, in which a sheet-like vibration damper, which resonates with the air vibration in the intake chamber and absorbs the energy of the air vibration, is attached to the inner wall of the casing by an attaching member via a space.

15 The sheet-like vibration damper is made of a single-layered thin flat plate or multi-layered thin flat plates. In case of the multi-layered thin flat plate, the air vibration energy in the intake chamber is absorbed not only by resonance but also by friction among the multi-layered thin plates. The sheet-like vibration damper may be made of a three-dimensional profile member  
20 having an inner space in which the attaching member is housed. If the thin flat plates are used, the surface areas thereof are not identical. If the three-dimensional profile members are used, the volumes of the inner spaces are not identical. Consequently, the sheet-like vibration damper can absorb and attenuate the  
25 vibration energy of different frequencies. If holes to connect spaces on opposite sides of the sheet-like vibration damper are formed in the sheet-like vibration damper, the air circulates between the spaces on opposite  
30 sides of the sheet-like vibration damper. Thus, the sheet-like vibration damper easily vibrates.

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